



MISSOURI DEPARTMENT OF HEALTH AND SENIOR SERVICES
STATE PUBLIC HEALTH LABORATORY
BREATH ALCOHOL PROGRAM
DATAMASTER MAINTENANCE REPORT

REPORT #6

Complete this report at the time of the regular monthly preventive maintenance check (not to exceed 35 days).
Complete this report whenever the instrument is serviced or repaired and whenever it is placed into service.
Retain the original and send a copy within 15 days to the Breath Alcohol Program, DHSS.

RECEIVED

By Carol Day at 11:28 am, Mar 27, 2014

DATAMASTER SN 204080 NAME OF AGENCY Missouri State Highway Patrol DATE OF INSPECTION 03/24/2014
LOCATION OF INSTRUMENT (STREET AND CITY) Cape Girardeau County Jail TIME OF INSPECTION 9:55 am

CHECKLIST: Place a mark in the box by each item if found to be satisfactory or if operating within established limits. (Write in observed values where determined.) Unmarked items must be corrected before using instrument.

☒ DIAGNOSTIC CHECK (PRINTOUT ATTACHED) DATE AND TIME (from printout) 03/24/14 9:55 am
☒ COMPUTER ☒ DETECTOR
☒ PROGRAM ☒ FILTERS
☒ HEATERS SAMPLE CHAMBER 49°C ☒ QUARTZ STANDARD
☒ FLOW DETECTOR ☒ CALIBRATION
☒ PUMP HIGH SPEED ☒ PRINTER

☒ INDICATOR LIGHTS

☒ SIMULATOR SOLUTION SUPPLIER Guth Laboratories, Inc. LOT # 13290 EXP. DATE 10/29/2015

☒ SIMULATOR TEMP (34°C ± 0.2°C) 34.0 °C SIMULATOR SN G11040 EXP. DATE 02/18/2015

☒ CALIBRATION CHECK - (ONLY ONE STANDARD IS TO BE USED PER MAINTENANCE REPORT)

Run three tests using a standard solution. All three tests must be within ±5% of the standard value and must have a spread of .005 or less. Mark the box corresponding to the standard solution being used. (PRINTOUT ATTACHED)

- ☒ 0.100% STANDARD - MUST READ BETWEEN 0.095% AND 0.105% INCLUSIVE
☐ 0.080% STANDARD - MUST READ BETWEEN 0.076% AND 0.084% INCLUSIVE
☐ 0.040% STANDARD - MUST READ BETWEEN 0.038% AND 0.042% INCLUSIVE

TEST 1 .098 TEST 2 .100 TEST 3 .100

☒ PERFORM R.F.I. TEST (PRINTOUT ATTACHED)

INDICATE THE NUMBER OF BREATH TESTS IN THE FOLLOWING RANGES SINCE THE LAST MAINTENANCE REPORT:
(DO NOT INCLUDE SELF-ADMINISTERED TESTS)

REFUSALS	0	(0-.04)	20	(.05-.09)	1	(.10-.14)	1	(.15-.19)	2	OVER .19	2
----------	---	---------	----	-----------	---	-----------	---	-----------	---	----------	---

LIST ANY NEW PARTS AND DESCRIBE ANY ALTERATION OR MODIFICATION THAT WAS MADE TO RESTORE THE INSTRUMENT TO OPERATE SATISFACTORILY AND WITHIN ESTABLISHED LIMITS
(USE OTHER SIDE IF NECESSARY).

INSPECTING OFFICER

SIGNATURE M. A. Winder PRINT FULL NAME Mark A. Winder

TYPE II PERMIT NUMBER/EXPIRATION DATE 240082 03/07/2016 TELEPHONE NUMBER (573) 840-9500

RETURN COMPLETED REPORT TO THE: Breath Alcohol Program, MO Department of Health and Senior Services, Southeast District Office
2875 James Blvd.
Poplar Bluff, MO 63901



GUTH LABORATORIES, INC.

590 NORTH 67th STREET • HARRISBURG, PA 17111-4511 • TELEPHONE: 717-584-5470

CERTIFICATE OF ANALYSIS

Certified Alcohol Reference Solution for Simulator

Random Samples of Lot Number 13290 of Alcohol Reference Solution for Simulator were analyzed by gas chromatography on October 31, 2013, using a Perkin Elmer Gas Chromatograph Autosystem XL S/N: 610N9030209, and found to contain 0.1202% (w/vol) ethyl alcohol. The expiration date for this lot number is October 29, 2015 at 11:59 PM.

When used in a calibrated Simulator, operating at 34°C +/- .2°C, this solution will give a breath alcohol analysis instrument reading of 0.100 g/210L +/- 3%.

The alcohol and water used in this solution were free of test interfering substances.

Ted L. Pauley, President
GUTH LABORATORIES, INC.

NIST Traceability:

Testing was conducted using Cerilliant Reference Standard lot number FN122211-02 whose values are traceable to NIST.

All balances are calibrated annually by an outside agency using NIST traceable weights. Calibration verification is done prior to each use utilizing NIST traceable weights.

Face This Side Down - This Edge In First

BAC DataMaster
Evidence Ticket

[illegible][illegible]

1000

[illegible][illegible]

THE UNIVERSITY OF CHICAGO

$$\frac{1}{\sigma^2} \frac{\partial^2 \log L}{\partial \theta^2} = -\frac{1}{\sigma^2} \frac{\partial^2}{\partial \theta^2} \log L$$

Figure 1

$$\frac{d}{dt} \left(\frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$$

$$\begin{array}{c}
 \text{HOOC} - \text{CH}_2 - \text{CH}(\text{OH}) - \text{R}' \\
 \downarrow \\
 \text{HOOC} - \text{CH}_2 - \text{CH}(\text{OH}) - \text{R}' - \text{O} - \text{C}(=\text{O}) - \text{R} - \text{C}(=\text{O}) - \text{O} - \text{CH}(\text{OH}) - \text{CH}_2 - \text{COOH} \\
 \downarrow \\
 \text{HOOC} - \text{CH}_2 - \text{CH}(\text{OH}) - \text{R}' - \text{O} - \text{C}(=\text{O}) - \text{R} - \text{C}(=\text{O}) - \text{O} - \text{CH}(\text{OH}) - \text{CH}_2 - \text{COOH} \\
 \downarrow \\
 \text{HOOC} - \text{CH}_2 - \text{CH}(\text{OH}) - \text{R}' - \text{O} - \text{C}(=\text{O}) - \text{R} - \text{C}(=\text{O}) - \text{O} - \text{CH}(\text{OH}) - \text{CH}_2 - \text{COOH} \\
 \downarrow \\
 \text{HOOC} - \text{CH}_2 - \text{CH}(\text{OH}) - \text{R}' - \text{O} - \text{C}(=\text{O}) - \text{R} - \text{C}(=\text{O}) - \text{O} - \text{CH}(\text{OH}) - \text{CH}_2 - \text{COOH}
 \end{array}$$

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The concentration of the *Agrobacterium* suspension was 10⁶ cells/ml (A), 10⁷ cells/ml (B), 10⁸ cells/ml (C), and 10⁹ cells/ml (D). The concentration of the *Agrobacterium* suspension was 10⁶ cells/ml (A), 10⁷ cells/ml (B), 10⁸ cells/ml (C), and 10⁹ cells/ml (D). The concentration of the *Agrobacterium* suspension was 10⁶ cells/ml (A), 10⁷ cells/ml (B), 10⁸ cells/ml (C), and 10⁹ cells/ml (D). The concentration of the *Agrobacterium* suspension was 10⁶ cells/ml (A), 10⁷ cells/ml (B), 10⁸ cells/ml (C), and 10⁹ cells/ml (D).

1000

[illegible]

1994

Year	Number of cases	Number of deaths
1990	10	0
1991	15	0
1992	20	0
1993	25	0
1994	30	0
1995	35	0
1996	40	0
1997	45	0
1998	50	0
1999	55	0
2000	60	0
2001	65	0
2002	70	0
2003	75	0
2004	80	0
2005	85	0
2006	90	0
2007	95	0
2008	100	0
2009	105	0
2010	110	0
2011	115	0
2012	120	0
2013	125	0
2014	130	0
2015	135	0
2016	140	0
2017	145	0
2018	150	0
2019	155	0
2020	160	0
2021	165	0
2022	170	0
2023	175	0
2024	180	0
2025	185	0
2026	190	0
2027	195	0
2028	200	0
2029	205	0
2030	210	0
2031	215	0
2032	220	0
2033	225	0
2034	230	0
2035	235	0
2036	240	0
2037	245	0
2038	250	0
2039	255	0
2040	260	0
2041	265	0
2042	270	0
2043	275	0
2044	280	0
2045	285	0
2046	290	0
2047	295	0
2048	300	0
2049	305	0
2050	310	0
2051	315	0
2052	320	0
2053	325	0
2054	330	0
2055	335	0
2056	340	0
2057	345	0
2058	350	0
2059	355	0
2060	360	0
2061	365	0
2062	370	0
2063	375	0
2064	380	0
2065	385	0
2066	390	0
2067	395	0
2068	400	0
2069	405	0
2070	410	0
2071	415	0
2072	420	0
2073	425	0
2074	430	0
2075	435	0
2076	440	0
2077	445	0
2078	450	0
2079	455	0
2080	460	0
2081	465	0
2082	470	0
2083	475	0
2084	480	0
2085	485	0
2086	490	0
2087	495	0
2088	500	0
2089	505	0
2090	510	0
2091	515	0
2092	520	0
2093	525	0
2094	530	0
2095	535	0
2096	540	0
2097	545	0
2098	550	0
2099	555	0
2100	560	0





100

$$\frac{\partial}{\partial t} \left(\frac{\partial \mathbf{u}}{\partial t} \right) = \frac{\partial}{\partial t} \left(\frac{\partial \mathbf{u}}{\partial t} \right)$$

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118
119
120
121
122
123
124
125
126
127
128
129
130
131
132
133
134
135
136
137
138
139
140
141
142
143
144
145
146
147
148
149
150
151
152
153
154
155
156
157
158
159
160
161
162
163
164
165
166
167
168
169
170
171
172
173
174
175
176
177
178
179
180
181
182
183
184
185
186
187
188
189
190
191
192
193
194
195
196
197
198
199
200
201
202
203
204
205
206
207
208
209
210
211
212
213
214
215
216
217
218
219
220
221
222
223
224
225
226
227
228
229
230
231
232
233
234
235
236
237
238
239
240
241
242
243
244
245
246
247
248
249
250
251
252
253
254
255
256
257
258
259
260
261
262
263
264
265
266
267
268
269
270
271
272
273
274
275
276
277
278
279
280
281
282
283
284
285
286
287
288
289
290
291
292
293
294
295
296
297
298
299
300
301
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
317
318
319
320
321
322
323
324
325
326
327
328
329
330
331
332
333
334
335
336
337
338
339
340
341
342
343
344
345
346
347
348
349
350
351
352
353
354
355
356
357
358
359
360
361
362
363
364
365
366
367
368
369
370
371
372
373
374
375
376
377
378
379
380
381
382
383
384
385
386
387
388
389
390
391
392
393
394
395
396
397
398
399
400
401
402
403
404
405
406
407
408
409
410
411
412
413
414
415
416
417
418
419
420
421
422
423
424
425
426
427
428
429
430
431
432
433
434
435
436
437
438
439
440
441
442
443
444
445
446
447
448
449
450
451
452
453
454
455
456
457
458
459
460
461
462
463
464
465
466
467
468
469
470
471
472
473
474
475
476
477
478
479
480
481
482
483
484
485
486
487
488
489
490
491
492
493
494
495
496
497
498
499
500
501
502
503
504
505
506
507
508
509
510
511
512
513
514
515
516
517
518
519
520
521
522
523
524
525
526
527
528
529
530
531
532
533
534
535
536
537
538
539
540
541
542
543
544
545
546
547
548
549
550
551
552
553
554
555
556
557
558
559
560
561
562
563
564
565
566
567
568
569
570
571
572
573
574
575
576
577
578
579
580
581
582
583
584
585
586
587
588
589
590
591
592
593
594
595
596
597
598
599
600
601
602
603
604
605
606
607
608
609
610
611
612
613
614
615
616
617
618
619
620
621
622
623
624
625
626
627
628
629
630
631
632
633
634
635
636
637
638
639
640
641
642
643
644
645
646
647
648
649
650
651
652
653
654
655
656
657
658
659
660
661
662
663
664
665
666
667
668
669
670
671
672
673
674
675
676
677
678
679
680
681
682
683
684
685
686
687
688
689
690
691
692
693
694
695
696
697
698
699
700
701
702
703
704
705
706
707
708
709
710
711
712
713
714
715
716
717
718
719
720
721
722
723
724
725
726
727
728
729
730
731
732
733
734
735
736
737
738
739
740
741
742
743
744
745
746
747
748
749
750
751
752
753
754
755
756
757
758
759
760
761
762
763
764
765
766
767
768
769
770
771
772
773
774
775
776
777
778
779
780
781
782
783
784
785
786
787
788
789
790
791
792
793
794
795
796
797
798
799
800
801
802
803
804
805
806
807
808
809
810
811
812
813
814
815
816
817
818
819
820
821
822
823
824
825
826
827
828
829
830
831
832
833
834
835
836
837
838
839
840
84

[illegible]

Operator Signature: _____

Face This Side Down - This Edge In First

BAC DataMaster
Evidence Ticket

MISSOURI STATE CIRCUIT COURT
BAC DATAMASTER SERIAL NUMBER 240033
08/24/14

ARREST TIME: 08:20
SUBJECT NAME:
GENDER:
DOB: 08/01/68 SEX: M
STATEID: 111 004424
ARRESTING OFFICER:
WINDER
OFFICER ID#: 579
TESTING OFFICER:
SAFE
OFFICER ID#: 579
PERMIT NUMBER: 240033
EXPIRATION DATE: 08/23/16
DISCLAIMER: 11/11

--- BAC DATA ANALYSIS ---

BAC TEST
INTERNAL STORAGE
BAC10 INTERFERENCE
0.00 10.20 10.20

Operator Signature _____